

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY/AGENT SHEET NO. 19603/481 (CRF D-2472A)	SERIAL NO. 09/528,014
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Barany et al.	
(use several sheets if necessary)		FILING DATE March 17, 2000	GROUP ART UNIT 1655
(PTO-1449)			

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	1	4,683,202	07/28/1987	Mullis			10/10/2000
✓	2	4,883,750	11/28/1989	Whiteley et al.			10/26/2000
✓	3	4,988,617	01/29/1991	Landegren et al.			10/26/2000
✓	4	5,035,996	07/30/1991	Hartley			10/26/2000
✓	5	5,202,231	04/13/1993	Drmanac et al.			10/26/2000
✓	6	5,314,809	05/24/1994	Erlich et al.			10/26/2000
✓	7	5,352,582	10/04/1994	Lichtenwalter et al.			10/26/2000
✓	8	5,324,633	06/28/1994	Fodor et al.			10/26/2000
✓	9	5,424,186	06/13/1995	Fodor et al.			10/26/2000
✓	10	5,143,854	09/01/1992	Pirrung et al.			10/26/2000
✓	11	5,405,783	04/11/1995	Pirrung et al.			10/26/2000
✓	12	5,415,839	05/16/1995	Zaun et al.			10/26/2000
✓	13	5,648,213	07/15/1997	Reddy et al.			10/26/2000
✓	14	5,858,659	01/12/1999	Sapolsky et al.			10/26/2000

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE
M	15	W0 91/17239	11/14/1991	WIPO			
✓	16	WO 96/06190	02/29/1996	WIPO			
✓	17	WO 92/16655 (English abstract)	10/01/1992	WIPO			
✓	18	WO 89/10977	11/16/1989	WIPO			
✓	19	WO 94/11530	05/26/1994	WIPO			
✓	20	WO 93/17126	09/02/1993	WIPO			
✓	21	WO 94/09022	04/28/1994	WIPO			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M	22	Watson et al., "In Vitro Mutagenesis," <u>Recombinant DNA</u> , Second Edition, New York, New York: W. H. Freeman and Company, pp. 191-194 (1983)			
		EXAMINER		DATE CONSIDERED	
M		March '02			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 19603/481 (CRF D-2472A)	SERIAL NO. 09/528,014
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Barany et al.	
(use several sheets if necessary) (PTO-1449)		FILING DATE March 17, 2000	GROUP ART UNIT 1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>M</i>	✓ 23	5,242,794	09/07/1993	Whiteley et al.			
	✓ 24	4,889,818	12/26/1989	Gelfand et al.			
	✓ 25	4,749,647	06/07/1988	Thomas et al.			
	✓ 26	5,371,241	12/06/1994	Brush			
	✓ 27	5,407,798	04/18/1995	Martinelli et al.			
	✓ 28	5,412,087	05/02/1995	McGall et al.			
	✓ 29	5,494,810	02/27/1996	Barany et al.			
	✓ 30	5,470,705	11/28/1995	Grossman et al.			
	✓ 31	5,525,464	06/11/1996	Drmanac et al.			
	✓ 32	5,536,649	07/16/1996	Fraiser et al.			
	✓ 33	5,593,840	01/14/1997	Bhatnagar et al.			
	✓ 34	5,731,171	03/24/1998	Bohlander			
	✓ 35	5,744,305	04/28/1998	Fodor et al.			
	✓ 36	5,800,984	09/01/1988	Vary			
<i>R</i>	✓ 37	5,834,181	11/10/1998	Shuber			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE
<i>M</i>	✓ 38	EP 0 336 731 A2	10/11/1989	Europe			
	✓ 39	EP 0 324 616 A2	07/19/1989	Europe			
	✓ 40	EP 0 130 515 A2	09/01/1985	Europe			
	✓ 41	EP 0 246 864 A2	11/25/1987	Europe			
<i>R</i>	✓ 42	WO 89/09835	10/19/1989	WIPO			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>M</i>	✓ 43	Takahashi et al., "Thermophilic DNA Ligase - Purification and Properties of the Enzyme from <i>Thermus Thermophilus</i> HB8,"
		<u>J. Biol. Chem. 259(16):10041-10047 (1984)</u>

EXAMINER		DATE CONSIDERED
<i>R</i>		<i>March '02</i>

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY/CKET NO.	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		19603/481 (CRF D-2472A)	09/528,014
(use several sheets if necessary)		APPLICANT	
(PTO-1449)		Barany et al.	
		FILING DATE	GROUP ART UNIT
		March 17, 2000	1655

U.S. PATENT DOCUMENTS

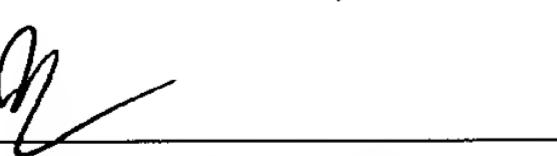
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M ✓	44	5,912,148	06/15/1999	Eggerding			
✓	45	6,054,564	04/25/2000	Barany			
✓	46	5,981,176	11/09/1999	Wallace			
✓	47	5,242,794	09/07/1993	Whiteley et al.			
✓	48	4,749,647	06/07/88	Thomas et al.			
✓	49	5,667,974	09/16/1997	Birkenmeyer et al.			
✓	50	5,391,480	02/21/1995	Davis et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE
M ✓	51	EP 0 320 308 A2	06/14/1989	Europe			
✓	52	WO 92/10588	06/25/1992	WIPO			
✓	53	WO 90/15070	12/13/1990	WIPO			
✓	54	EP 0 601 714 A1	06/15/1994	Europe			
✓	55	WO 94/17206	08/04/1994	WIPO			
✓	56	WO 90/11372	10/04/1990	WIPO			
✓	57	WO 94/17210	08/04/1994	WIPO			
✓	58	WO 93/20236	10/14/1993	WIPO			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M ✓	✓	59	Saiki et al., "Enzymatic Amplification of β -Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia," <u>Science</u> 230:1350-1354 (1985)
✓	✓	60	Saiki et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <u>Science</u> 239:487-491 (1988)

EXAMINER	DATE CONSIDERED
	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

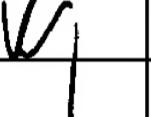
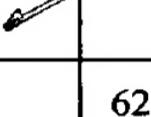
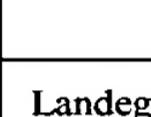
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

			61	Kumar et al., "Oncogene Detection at the Single Cell Level," <u>Oncogene</u> 3(6):647-651 (1988)			
			62	Landegren et al., "A Ligase-Mediated Gene Detection Technique," <u>Science</u> 241:1077-1080 (1988)			
			63	Landegren et al., "DNA Diagnostics -- Molecular Techniques and Automation," <u>Science</u> 242:229-237 (1988)			
			64	Iovannisci et al., "Ligation Amplification and Fluorescence Detection of Mycobacterium Tuberculosis DNA," <u>Mol. Cell. Probes</u> 7(1):35-43 (1993)			
			65	Wu et al., "The Ligation Amplification Reaction (LAR)-Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <u>Genomics</u> 4:560-569 (1989)			
			66	Darnell et al., "Manipulating Macromolecules," <u>Molecular Cell Biology</u> , Second Edition, New York, New York: W. H. Freeman and Company, pp. 189-225 (1990)			
			67	Eckert et al., "High Fidelity DNA Synthesis by the <i>Thermus aquaticus</i> DNA Polymerase," <u>Nucleic Acids Res.</u> 18(13):3739-3744 (1990)			
			68	Kwok et al., "Effects of Primer-Template Mismatches on the Polymerase Chain Reaction: Human Immunodeficiency Virus Type 1 Model Studies," <u>Nucleic Acids Res.</u> 18(4):999-1005 (1990)			
			69	Suzuki et al., "Detection of <i>Ras</i> Gene Mutations in Human Lung Cancers by Single-Strand Conformation Polymorphism Analysis of Polymerase Chain Reaction Products," <u>Oncogene</u> 5:1037-1043 (1990)			
EXAMINER			DATE CONSIDERED				
							
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY/CKET NO.	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		19603/481 (CRF D-2472A)	09/528,014
(use several sheets if necessary)		APPLICANT	
(PTO-1449)		Barany et al.	
		FILING DATE	GROUP ART UNIT
		March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M	✓	70	Barany, "Genetic Disease Detection and DNA Amplification Using Cloned Thermostable Ligase," <u>Proc. Nat'l. Acad. Sci. USA</u> 88:189-193 (1991)				
	✓	71	Barany, "The Ligase Chain Reaction in a PCR World," <u>PCR Methods and Applications</u> 1:5-16 (1991)				
	✓	72	Eckert et al., "DNA Polymerase Fidelity and the Polymerase Chain Reaction," <u>PCR Methods and Applications</u> 1(1):17-24 (1991)				
	✓	73	Erlich et al., "Recent Advances in the Polymerase Chain Reaction," <u>Science</u> 252:1643-1651 (1991)				
	✓	74	Kuppuswamy et al., "Single Nucleotide Primer Extension to Detect Genetic Diseases: Experimental Application to Hemophilia B (Factor IX) and Cystic Fibrosis Genes," <u>Proc. Natl. Acad. Sci. USA</u> 88:1143-1147 (1991)				
	✓	75	Mitsudomi et al., "Mutations of <i>ras</i> Genes Distinguish a Subset of Non-Small-Cell Lung Cancer Cell Lines from Small-Cell Lung Cancer Cell Lines," <u>Oncogene</u> 6:1353-1362 (1991)				
	✓	76	Tada et al., "Clinical Application of <i>ras</i> Gene Mutation for Diagnosis of Pancreatic Adenocarcinoma," <u>Gastroent.</u> 100:233-238 (1991)				
	✓	77	Winn-Deen et al., "Sensitive Fluorescence Method for Detecting DNA Ligation Amplification Products," <u>Clinical Chemistry</u> 37(9):1522-1523 (1991)				
JN	✓	78	Anderson et al., "Prevalence of RAS Oncogene Mutation in Head and Neck Carcinomas," <u>The Journal of Otolaryngology</u> 21(5):321-326 (1992)				

EXAMINER	<i>M</i>	DATE CONSIDERED	<i>March 12</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY/CKET NO.	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		19603/481 (CRF D-2472A)	09/528,014
(use several sheets if necessary)		APPLICANT	
(PTO-1449)		Barany et al.	
		FILING DATE	GROUP ART UNIT
		March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M	✓	79	Devlin, "Textbook of Biochemistry, with clinical correlations," A Wiley Medical publication, pp. 985-995 (1982)				
	✓	80	Sandy et al., "Genotypic Analysis of Mutations in <i>Taq I</i> Restriction Recognition Sites by Restriction Fragment Length Polymorphism/Polymerase Chain Reaction," <i>Proc. Natl. Acad. Sci. USA</i> 89:890-894 (1992)				
	✓	81	Sidransky et al., "Identification of <i>ras</i> Oncogene Mutations in the Stool of Patients with Curable Colorectal Tumors," <i>Science</i> 256:102-105 (1992)				
	✓	82	Bottema et al., "PCR Amplification of Specific Alleles: Rapid Detection of Known Mutations and Polymorphisms," <i>Mutation Research</i> 288(1):93-102 (1993)				
	✓	83	Cariello et al., "Mutational Analysis Using Denaturing Gradient Gel Electrophoresis and PCR," <i>Mutation Research</i> 288:103-112 (1993)				
	✓	84	Cotton, "Current Methods of Mutation Detection," <i>Mutation Research</i> 285(1):125-144 (1993)				
	✓	85	Fan et al., "Limitations in the Use of SSCP Analysis," <i>Mutation Research</i> 288:85-92 (1993)				
R	✓	86	Lu et al., "Quantitative Aspects of the Mutant Analysis by PCR and Restriction Enzyme Cleavage (MAPREC)" <i>PCR Methods and Appl.</i> 3:176-180 (1993)				
R	✓	87	Pourzand et al., "Genotypic Mutation Analysis by RFLP/PCR," <i>Mutation Research</i> 288(1):113-121 (1993)				

EXAMINER

M

DATE CONSIDERED

March 02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTORNEY DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>M</i>	<i>✓</i>	88	Powell et al., "Molecular Diagnosis of Familial Adenomatous Polyposis," <u>The New England Journal of Medicine</u> 329(27):1982-1987 (1993)
	<i>✓</i>	89	Rust et al., "Mutagenically Separated PCR (MS-PCR): A Highly Specific One Step Procedure for Easy Mutation Detection," <u>Nucl. Acids Res.</u> 21(16):3623-3629 (1993)
	<i>✓</i>	90	New England Biolabs Catlog, p. 63, Beverly, MA <i>1986 no date provided</i>
	<i>✓</i>	91	Balles et al., "Facilitated Isolation of Rare Recombinants by Ligase Chain Reaction: Selection for Intragenic Crossover Events in the <i>Drosophila optomotor-blind</i> Gene," <u>Molec. Gen. Genet.</u> 245:734-740 (1994)
	<i>✓</i>	92	Barnes, "PCR Amplification of Up To 35-kb DNA With High Fidelity and High Yield From λ Bacteriophage Templates," <u>Proc. Natl. Acad. Sci. USA</u> 91(6):2216-2220 (1994)
	<i>✓</i>	93	Cheng et al., Effective Amplification of Long Targets From Cloned Inserts and Human Genomic DNA," <u>Proc. Natl. Acad. Sci. USA</u> 91(12):5695-5699 (1994)
	<i>✓</i>	94	Grossman et al., "High-Density Multiplex Detection of Nucleic Acid Sequences: Oligonucleotide Ligation Assay and Sequence-Coded Separation," <u>Nucleic Acids Research</u> 22(21):4527-4534 (1994)
<i>M</i>	<i>✓</i>	95	Hayashi et al., "Genetic Diagnosis Identifies Occult Lymph Node Metastases Undetectable by the Histopathological Method," <u>Cancer Res.</u> 54:3853-3856 (1994)

EXAMINER

DATE CONSIDERED

*M**March 02*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTORNEY/AGENT NAME ADDRESS CITY STATE ZIP	BUCKET NO. 19603/481 (CRF D-2472A)	SERIAL NO. 09/528,014
	APPLICANT	Barany et al.	
	FILING DATE	March 17, 2000	
		GROUP ART UNIT	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M		96	Jen et al., "Molecular Determinants of Dysplasia in Colorectal Lesions," <u>Cancer Res.</u> 54:5523-5526 (1994)
		97	Abravaya et al., "Detection of Point Mutations With a Modified Ligase Chain Reaction (Gap-LCR)," <u>Nucleic Acids Research</u> 23(4):675-682 (1995)
		98	Berthélémy et al., "Brief Communications--Identification of K-ras Mutations in Pancreatic Juice in the Early Diagnosis of Pancreatic Cancer," <u>Annals of Internal Medicine</u> 123(3):188-191 (1995)
		99	Brennan et al., "Molecular Assessment of Histopathological Staging in Squamous-Cell Carcinoma of the Head and Neck," <u>New England Journal of Medicine</u> 332(7):429-435 (1995)
		100	Day et al., "Detection Of Steroid 21-Hydroxylase Alleles Using Gene-Specific PCR and a Multiplexed Ligation Detection Reaction," <u>Genomics</u> 29:152-162 (1995)
		101	Frenkel, "Specific, Sensitive, and Rapid Assay for Human Immunodeficiency Virus Type 1 pol Mutations Associated with Resistance to Zidovudine and Didanosine," <u>Journal of Clinical Microbiology</u> 33(2):342-347 (1995)
		102	Redston et al., "Common Occurrence of APC and K-ras Gene Mutations in the Spectrum of Colitis-Associated Neoplasias," <u>Gastroenterology</u> 108:383-392 (1995)
M		103	Luo et al., "Improving the Fidelity of <i>Thermus thermophilus</i> DNA Ligase," <u>Nucleic Acids Research</u> 24(14):3071-3078 (1996)

EXAMINER	DATE CONSIDERED
M	March 02
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY/CKET NO.	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		19603/481 (CRF D-2472A)	09/528,014
(use several sheets if necessary)		APPLICANT	
(PTO-1449)		Barany et al.	
		FILING DATE	GROUP ART UNIT
		March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

W		104	O'Dell et al., "PCR Induction of a <i>TaqI</i> Restriction Site at Any CpG Dinucleotide Using Two Mismatched Primers (CpG-PCR)," <u>Genome Research</u> 6(6):558-568 (1996)
		105	Sang et al., "Generation of Site-Directed Mutagenesis by Extralong, High-Fidelity Polymerase Chain Reaction," <u>Analytical Biochemistry</u> 233(1):142-144 (1996)
		106	Khanna et al., "Multiplex PCR/LDR for Detection of K-ras Mutations in Primary Colon Tumors," <u>Oncogene</u> 18:27-38 (1999)
		107	Cha et al., "Mismatch Amplification Mutation Assay (MAMA): Application to the c-H-ras Gene," <u>PCR Methods Appl.</u> 2(1):14-20 (1992)
		108	Haliassos et al., "Detection of Minority Point Mutations by Modified PCR Technique: A New Approach for a Sensitive Diagnosis of Tumor-Progression Markers," <u>Nucleic Acids Res.</u> 17:8093-8099 (1989)
		109	Chen et al., "A Nonradioactive, Allele-Specific Polymerase Chain Reaction for Reproducible Detection of Rare Mutations in Large Amounts of Genomic DNA: Application to Human K-Ras," <u>Anal. Biochem.</u> 244:191-194 (1997)
		110	Kumar et al., "Designed Diagnostic Restriction Fragment Length Polymorphisms for the Detection of Point Mutations in ras Oncogenes," <u>Oncogene Res.</u> 4(3):235-241 (1989)
		111	Jacobson et al., "A Highly Sensitive Assay for Mutant <i>ras</i> Genes and its Application to the Study of Presentation and Relapse Genotypes in Acute Leukemia," <u>Oncogene</u> 9(2):553-563 (1994)
M		112	Chen et al., "A Method to Detect <i>ras</i> Point Mutations in Small Subpopulations of Cells," <u>Anal. Biochem.</u> 195(1):51-56 (1991)

EXAMINER	DATE CONSIDERED
<i>R</i>	<i>March 02</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
FILING DATE	GROUP ART UNIT	
March 17, 2000	1655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M		113	DiGiuseppe et al., "Detection of K-ras Mutations in Mucinous Pancreatic Duct Hyperplasia from a Patient with a Family History of Pancreatic Carcinoma," <u>Am. J. Pathol.</u> 144(5):889-895 (1994)
		114	Kahn et al., "Rapid and Sensitive Nonradioactive Detection of Mutant K-ras Genes Via 'Enriched' PCR Amplification," <u>Oncogene</u> 6:1079-1083 (1991)
		115	Levi et al., "Multiple K-ras Codon 12 Mutations in Cholangiocarcinomas Demonstrated with a Sensitive Polymerase Chain Reaction Technique," <u>Cancer Research</u> 51(July):3497-3502 (1991)
		116	Hattori et al., "Mismatch PCR RFLP Detection of DRD2 SER311CYS Polymorphism and Schizophrenia," <u>Biochem. Biophys. Res. Commun.</u> 202(2):757-763 (1994)
		117	Hodaňová et al., "Incorrect Assignment of N370S Mutation Status by Mismatched PCR/RFLP Method in Two Gaucher Patients," <u>J. Inherit. Metab. Dis.</u> 20(4):611-612 (1997)
		118	Hoops et al., "Template Directed Incorporation of Nucleotide Mixtures Using Azole-Nucleobase Analogs," <u>Nucleic Acids Res.</u> 25(24):4866-4871 (1997)
		119	Brown et al., "Synthesis and Duplex Stability of Oligonucleotides Containing Adenine-Guanine Analogues," <u>Carbohydrate Research</u> 216:129-139 (1991)
		120	Bergstrom et al., "Design and Synthesis of Heterocyclic Carboxamides as Natural Nucleic Acid Base Mimics," <u>Nucleosides and Nucleotides</u> 15(1-3):59-68 (1996)
M		121	Bergstrom et al., "Synthesis, Structure, and Deoxyribonucleic Acid Sequenceing with a Universal Nucleoside: 1-(2'-Deoxy- β -D-Ribofuranosyl)-3-nitropyrrrole," <u>J. Am. Chem. Soc.</u> 117:1201-1209 (1995)

EXAMINER

M

DATE CONSIDERED

March 07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		122	Zhang et al., "Exploratory Studies on Azole Carboxamides as Nucleobase Analogs: Thermal Denaturation Studies on Oligodeoxyribonucleotide Duplexes Containing Pyrrole-3-Carboxamide," <u>Nucleic Acids Res.</u> 26:2208-2215 (1998)
		123	Hill et al., "Polymerase Recognition of Synthetic Oligodeoxyribonucleotides Incorporating Degenerate Pyrimidine and Purine Bases," <u>Proc. Natl. Acad. Sci. USA</u> 95(8):4258-4263 (1998)
		124	Cline et al., "PCR Fidelity of <i>Pfu</i> DNA Polymerase and Other Thermostable DNA Polymerases," <u>Nucleic Acids Res.</u> 24(18):3546-3451 (1996)
		125	Brail et al., "Improved Polymerase Fidelity in PCR-SSCPA," <u>Mutat. Res.</u> 303(4):171-175 (1993)
		126	Gotoda et al., "Detection of Three Separate DNA Polymorphisms in the Human Lipoprotein Lipase Gene by Gene Amplification and Restriction Endonuclease Digestion," <u>J. Lipid Res.</u> 33(7):1067-1072 (1992)
		127	Athma et al., "Single Base Polymorphism Linked to the Ataxia-Telangiectasia Locus is Detected by Mismatch PCR," <u>Biochem. and Biophys. Res. Commun.</u> 210(3):982-986 (1995)
		128	Celi et al., "A Rapid and Versatile Method to Synthesize Internal Standards for Competitive PCR," <u>Nucleic Acids Research</u> 21(4):1047 (1993)
		129	Wiedmann et al., "Ligase Chain Reaction (LCR)-Overview and Applications," <u>PCR Methods and Applications</u> CSH Laboratory Press, S51-S64 (1994)
		130	Mao et al., "Microsatellite Alterations as Clonal Markers for the Detection of Human Cancer," <u>Proc. Natl. Acad. Sci. USA</u> 91:9871-9875 (1994)

EXAMINER	DATE CONSIDERED
<i>M.</i>	<i>March 17</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
FILING DATE	GROUP ART UNIT	
March 17, 2000	1655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

✓	✓	131	Mao et al., "Molecular Detection of Primary Bladder Cancer by Microsatellite Analysis," <u>Science</u> 271:659-662 (1996)
		132	Radford et al., "Allelotyping of Ductal Carcinoma <i>in Situ</i> of the Breast: Deletion of Loci on 8p, 13q, 16q, 17p and 171q" <u>Cancer Research</u> 55:3399-3405 (1995)
✓	✓	133	Cawkwell et al., "Frequency of Allele Loss of DCC, <i>p53</i> , <i>RBI</i> , <i>WT1</i> , <i>NFI</i> , <i>NM23</i> and <i>PC/MCC</i> in Colorectal Cancer Assayed by Fluorescent Multiplex Polymerase Chain Reaction," <u>Br. J. Cancer</u> , 70(5):813-818 (1994)
		134	Reed et al., "Chromosome-Specific Microsatellite Sets for Fluorescence-Based, Semi-Automated Genome Mapping," <u>Nature Genetics</u> 7:390-395 (1994)
✓	✓	135	Syvänen et al., "Identification of Individuals by Analysis of Biallelic DNA Markers, Using PCR and Solid-Phase Minisequencing," <u>Am. J. Hum. Genet.</u> 52:46-59 (1993)
		136	Deng et al., "An Improved Method of Competitive PCR for Quantitation of Gene Copy Number," <u>Nucleic Acids Research</u> 21(20):4848-4849 (1993)
✓	✓	137	Hsuih et al., "Novel, Ligation-Dependent PCR Assay for Detection of Hepatitis C Virus in Serum," <u>J. Clin. Microbiol.</u> 34(3):a-g (1996)
		138	Park et al., "Detection of Hepatitis C Virus RNA Using Ligation-Dependent Polymerase Chain Reaction in Formalin-Fixed, Paraffin-Embedded Liver Tissue," <u>149(5):1485-1491</u> (1996)
✓	✓	139	Wegmüller et al., "Combination of Oligonucleotide Ligation and PCR to Detect Point Mutations," (unpublished) not in conformance

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
FILING DATE	GROUP ART UNIT	
March 17, 2000	1655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		140	Nilsson et al., "Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection," <u>Science</u> 265:2085-2088 (1994)
		141	Newton et al., "The Production of PCR Products With 5' Single-Stranded Tails Using Primers That Incorporate Novel Phosphoram Phosphoramidite Intermediates," <u>Nucleic Acids Research</u> 21(5):1155-1162 (1993)
		142	Jin et al., "Alternating Current Impedance Characterization of the Structure of Alkylsiloxane Self-Assembled Monolayers on Silicon," <u>Langmuir</u> 10:2662-2671 (1994)
		143	Cheng et al., "In Situ Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy of Carboxylate-Bearing, Siloxane-Anchored, Self-Assembled Monolayers: A Study of Carboxylate Reactivity and Acid-Base Properties," <u>Langmuir</u> 11:1190-1195 (1995)
		144	Kim et al., "Polymeric Self-Assembled Monolayers. 2. Synthesis and Characterization of Self-Assembled Polydiacetylene Mono- and Multilayers," <u>J. Am. Chem. Soc.</u> 117:3963-3967 (1995)
		145	Lauer et al., "Cloning, Nucleotide Sequence, and Engineered Expression of <i>Thermus thermophilus</i> DNA Ligase, a Homolog of <i>Escherichia coli</i> DNA Ligase," <u>J. Bacteriol.</u> 173(16):5047-5053 (1991)
		146	Barany et al., "Cloning, Overexpression and Nucleotide Sequence of a Thermostable DNA Ligase-Encoding Gene," <u>Gene</u> 109:1-11 (1991)
		147	Jou et al., "Deletion Detection in the Dystrophin Gene by Multiplex Gap Ligase Chain Reaction and Immunochromatographic Strip Technology," <u>Human Mutation</u> 5:86-93 (1995)
		148	Chan et al., "Polymeric Self-Assembled Monolayers. 3. Pattern Transfer by Use of Photolithography, Electrochemical Methods and an Ultrathin, Self-Assembled Diacetylenic Resist," <u>J. Am. Chem. Soc.</u> 117:5875-5876 (1995)

EXAMINER

DATE CONSIDERED

Mar 10 02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
FILING DATE	GROUP ART UNIT	
March 17, 2000	1655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M		149	Munkholm et al., "Polymer Modification of Fiber Optic Chemical Sensors as a Method of Enhancing Fluorescence Signal for pH Measurement," <u>Anal. Chem.</u> 58:1427-1430 (1986)
		150	Graham et al., "Gene Probe Assays on a Fibre-Optic Evanescent Wave Biosensor," <u>Biosensors & Bioelectronics</u> 7:487-493 (1992)
		151	Chetverin et al., "Sequencing of Pools of Nucleic Acids on Oligonucleotide Arrays," <u>BioSystems</u> 30:215-231 (1993)
		152	Pease et al., "Light-Generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis," <u>Proc. Natl. Acad. Sci. USA</u> 91:5022-5026 (1994)
		153	Beattie et al., "Advances in Genosensor Research," <u>Clin. Chem.</u> 41(5):700-706 (1995)
		154	Bains, "Mixed Hybridization and Conventional Strategies for DNA Sequencing," <u>Gata</u> 10(3-4):84-94 (1993)
		155	Kuznetsova et al., "DNA Sequencing by Hybridization with Oligonucleotides Immobilized in a Gel," <u>Mol. Biol. (Mosk) (Russia)</u> , 28(2):290-299 (English abstract) <i>no date available</i>
		156	Lysov et al., "Measurement of Distances Between DNA Segments Increases the Efficiency of Sequencing by Hybridization with Oligonucleotide Matrix," <u>Molecular Biology</u> 28(3)(Part 2):433-436 (1994)
M		157	Livshits et al., "Dissociation of Duplexes Formed by Hybridization of DNA with Gel-Immobilized Oligonucleotides," <u>Journal of Biomolecular Structure & Dynamics</u> 11(4):783-795 (1994)

EXAMINER	DATE CONSIDERED
<i>M</i>	<i>March 02</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	158	Davis et al., "Quantitative Detection of Hepatitis C Virus RNA With a Solid-phase Signal Amplification Method: Definition of
		Optimal Conditions for Specimen Collection and Clinical Application in Interferon-treated Patients," <u>Hepatology</u> 19(6):1337-1341
		(1994)
	159	Urdea, "Synthesis and Characterization of Branched DNA (bDNA) for the Direct and Quantitative Detection of
		CMV, HBV, HCV, and HIV," <u>Clinical Chemistry</u> 39(4):725-726 (1993)
	160	Reynolds et al., "Analysis of Genetic Markers in Forensic DNA Samples Using the Polymerase Chain Reaction,"
		<u>Anal. Chem.</u> 63:2-15 (1991)
	161	Buyse et al., "Rapid DNA Typing of Class II HLA Antigens Using the Polymerase Chain Reaction and Reverse Dot Blot
		Hybridization," <u>Tissue Antigens</u> 41:1-14 (1993)
	162	Gyllensten et al., "PCR-Based HLA Class II Typing," <u>PCR Meth. Appl.</u> 1:91-98 (1991)
	163	Chamberlain et al., "Deletion Screening of the Duchenne Muscular Dystrophy Locus Via Multiplex DNA Amplification,"
		<u>Nucleic Acids Res.</u> 16(23):11141-11156 (1988)
	164	Tsui, "Mutations and Sequence Variations Detected in the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR)
		Gene: A Report From the Cystic Fibrosis Genetic Analysis Consortium," <u>Human Mutat.</u> 1:197-203 (1992)
	165	Hollstein et al., "p53 Mutations in Human Cancers," <u>Science</u> 253:49-53 (1991)
	166	Gibbs et al., "Detection of Single DNA Base Differences by Competitive Oligonucleotide Priming,"
		<u>Nucleic Acids Res.</u> 17:2437-2448 (1989)

EXAMINER

DATE CONSIDERED

March 10

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	Barany et al.
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

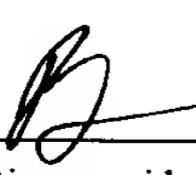
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

W	167	Chehab et al., "Detection of Specific DNA Sequences by Fluorescence Amplification: A Color Complementation Assay," <u>Proc. Natl. Acad. Sci. USA</u> 86:9178-9182 (1989)
		Livak et al., "Detection of Single Base Differences Using Biotinylated Nucleotides With Very Long Linker Arms," <u>Nucleic Acids Res.</u> 20(18):4831-4837 (1992)
W	169	Nickerson et al., "Automated DNA Diagnostics Using an ELISA-Based Oligonucleotide Ligation Assay," <u>Proc. Natl. Acad. Sci. USA</u> 87:8923-8927 (1990)
		Weber et al., "Abundant Class of Human DNA Polymorphisms Which Can Be Typed Using the Polymerase Chain Reaction," <u>Am. J. Hum. Genet.</u> 44:388-396 (1989)
W	171	Weissenbach et al., "A Second-Generation Linkage Map of the Human Genome," <u>Nature (London)</u> 359:794-801 (1992)
		Ruppert et al., "Evidence for Two Bladder Cancer Suppressor Loci on Human Chromosome 9 ¹ ," <u>Cancer Res.</u> 53:5093-5095 (1993)
W	173	van der Riet et al., "Frequent Loss of Chromosome 9p21-22 Early in Head and Neck Cancer Progression," <u>Cancer Res.</u> 54:1156-1158 (1994)
		Nawroz et al., "Allelotype of Head and Neck Squamous Cell Carcinoma," <u>Cancer Res.</u> 54:1152-1155 (1994)
W	175	Cairns et al., "Homozygous Deletions of 9p21 in Primary Human Bladder Tumors Detected by Comparative Multiple Polymerase Chain Reaction," <u>Cancer Res.</u> 54:1422-1424 (1994)

EXAMINER



DATE CONSIDERED



EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
FILING DATE	GROUP ART UNIT	
March 17, 2000	1655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

✓	176	The Huntington's Disease Collaborative Research Group, "A Novel Gene Containing a Trinucleotide Repeat That is Expanded and Unstable on Huntington's Disease Chromosomes," <u>Cell</u> 72:971-983 (1993)					
✓	177	Kremer et al., "Mapping of DNA Instability at the Fragile X to a Trinucleotide Repeat Sequence p(CCG) _n " <u>Science</u> 252:1711-1714 (1991)					
✓	178	Imbert et al., "Origin of the Expansion Mutation in Myotonic Dystrophy," <u>Nat. Genet.</u> 4:72-76 (1993)					
✓	179	Orr et al., "Expansion of an Unstable Trinucleotide CAG Repeat in Spinocerebellar Ataxia Type 1," <u>Nat. Genet.</u> 4:221-226 (1993)					
✓	180	Biancalana et al., "Moderate Instability of the Trinucleotide Repeat in Spino Bulbar Muscular Atrophy," <u>Hum. Mol. Genet.</u> 1(4):255-58 (1992)					
✓	181	Chung et al., "Evidence for a Mechanism Predisposing to Intergenerational CAG Repeat Instability in Spinocerebellar Ataxia Type I," <u>Nat. Genet.</u> 5:254-258 (1993)					
✓	182	Koide et al., "Unstable Expansion of CAG Repeat in Hereditary Dentatorubral-Pallidoluysian Atrophy (DRPLA)," <u>Nat. Genet.</u> 6:9-13 (1994)					
✓	183	Peinado et al., "Isolation and Characterization of Allelic Losses and Gains in Colorectal Tumors by Arbitrarily Primed Polymerase Chain Reaction," <u>Proc. Natl. Acad. Sci. USA</u> 89:10065-10069 (1992)					
✓	184	Ionov et al., "Ubiquitous Somatic Mutations in Simple Repeated Sequences Reveal a New Mechanism for Colonic Carcinogenesis," <u>Nature (London)</u> 363:558-561 (1993)					

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
FILING DATE	GROUP ART UNIT	
March 17, 2000	1655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

u	/	185	Thibodeau et al., "Microsatellite Instability in Cancer of the Proximal Colon," <u>Science</u> 260:816-819 (1993)				
	/	186	Risinger et al., "Genetic Instability of Microsatellites in Endometrial Carcinoma," <u>Cancer Res.</u> 53:5100-5103 (1993)				
	/	187	Han et al., "Genetic Instability in Pancreatic Cancer and Poorly Differentiated Type of Gastric Cancer," <u>Cancer Res.</u> 53:5087-5089 (1993)				
	/	188	Peltomäki et al., "Microsatellite Instability is Associated with Tumors That Characterize the Hereditary Non-Polyposis Colorectal Carcinoma Syndrome," <u>Cancer Res.</u> 53:5853-5855 (1993)				
	/	189	Gonzalez-Zulueta et al., Microsatellite Instability in Bladder Cancer," <u>Cancer Res.</u> 53:5620-5623 (1993)				
	/	190	Merlo et al., "Frequent Microsatellite Instability in Primary Small Cell Lung Cancer," <u>Cancer Res.</u> 54:2098-2101 (1994)				
	/	191	Leach et al., "Mutations of a <i>mutS</i> Homolog in Hereditary Nonpolyposis Colorectal Cancer," <u>Cell</u> 75:1215-1225 (1993)				
	/	192	Fishel et al., "The Human Mutator Gene Homolog <i>MSH2</i> and its Association with Hereditary Nonpolyposis Colon Cancer," <u>Cell</u> 75:1027-1038 (1993)				
m	/	193	Papadopoulos et al., "Mutation of a <i>mutl</i> Homolog in Hereditary Colon Cancer," <u>Science</u> 263:1625-1629 (1994)				

EXAMINER	DATE CONSIDERED
<i>m</i>	<i>March 17</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

✓	✓	194	Bronner et al., "Mutation in the DNA Mismatch Repair Gene Homologue <i>hMLH1</i> is Associated with Hereditary Non-Polyposis Colon Cancer," <u>Nature (London)</u> 368:258-261 (1994)
		195	Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation using Experimental Models," <u>Genomics</u> 13:1008-1017 (1992)
✓	✓	196	Fodor et al., "Multiplexed Biochemical Assays with Biological Chips," <u>Nature</u> 364:555-556 (1993)
		197	Khrapko et al., "A Method for DNA Sequencing by Hybridization with Oligonucleotide Matrix," <u>J. DNA Seq. Map.</u> 1:375-388 (1991)
✓	✓	198	Van Ness et al., "A Versatile Solid Support System for Oligodeoxynucleotide Probe-based Hybridization Assays," <u>Nucleic Acids Res.</u> 19:3345-3350 (1991)
		199	Zhang et al., "Single-base Mutational Analysis of Cancer and Genetic Diseases Using Membrane Bound Modified Oligonucleotides," <u>Nucleic Acids Res.</u> 19:3929-3933 (1991)
✓	✓	200	Lipshutz et al., "Using Oligonucleotide Probe Arrays To Assess Genetic Diversity," <u>Biotechniques</u> 19:442-447 (1995)
		201	Maskos et al., "A Study of Oligonucleotide Reassociation Using Large Arrays of Oligonucleotides Synthesised on a Glass Support," <u>Nucleic Acids Res.</u> 21:4663-4669 (1993)
✓	✓	202	Maskos et al., "A Novel Method for the Analysis of Multiple Sequence Variants by Hybridisation to Oligonucleotides," <u>Nucleic Acids Res.</u> 21:2267-2268 (1993)

EXAMINER	DATE CONSIDERED
<i>M</i>	<i>March 17</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
FILING DATE	GROUP ART UNIT	
March 17, 2000	1655	

U.S. PATENT DOCUMENTS

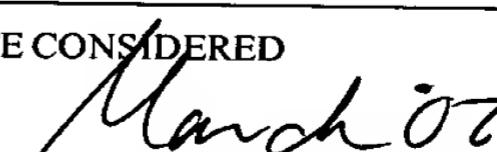
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M	✓	203	Timofeev et al., "Regioselective Immobilization of Short Oligonucleotides to Acrylic Copolymer Gels," <u>Nucleic Acids Res.</u> 24(16):3142-3148 (1996)
		204	Guo et al., Direct Fluorescence Analysis of Genetic Polymorphisms by Hybridization with Oligonucleotide Arrays on Glass Supports, " <u>Nucleic Acids Res.</u> 22:5456-5465 (1994)
✓	205	205	Hacia et al., "Detection of Heterozygous Mutations in <i>BRCA1</i> Using High Density Oligonucleotide Arrays and Two-Colour Fluorescence Analysis," <u>Nat. Genet.</u> 14:441-447 (1996)
		206	Chee et al., "Accessing Genetic Information with High-Density DNA Arrays," <u>Science</u> 274:610-614 (1996)
✓	207	207	Schena et al., "Parallel Human Genome Analysis: Microarray-Based Expression Monitoring of 1000 Genes," <u>Proc. Natl. Acad. Sci. USA</u> 93:10614-10619 (1996)
		208	Shalon et al., "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-Color Fluorescent Probe Hybridization," <u>Genome Res.</u> 6:639-645 (1996)
✓	209	209	Cronin et al., "Cystic Fibrosis Mutation Detection by Hybridization to Light-Generated DNA Probe Arrays," <u>Human Mutation</u> 7:244-255 (1996)
		210	Wang et al., "Large-Scale Identification, Mapping, and Genotyping of Single-Nucleotide Polymorphisms in the Human Genome," <u>Science</u> 280:1077-1082 (1998)
✓	211	211	Southern, "DNA Chips: Analyzing Sequence by Hybridization to Oligonucleotides on a Large Scale," <u>Trends in Genet.</u> 12(3):110-115 (1996)

EXAMINER	DATE CONSIDERED
	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M	✓	212	Drobyshev et al., "Sequence Analysis by Hybridization with Oligonucleotide Microchip: Identification of β -Thalassemia Mutations," <u>Gene</u> 188:45-52 (1997)				
✓	213	Yershov et al., "DNA Analysis and Diagnostics on Oligonucleotide Microchips," <u>Proc. Natl. Acad. Sci. USA</u> 93:4913-4918 (1996)					
✓	214	Parinov et al., "DNA Sequencing by Hybridization to Microchip Octa- and Decanucleotides Extended by Stacked Pentanucleotides," <u>Nucleic Acids Res.</u> 24(15):2998-3004 (1996)					
✓	215	Kozal et al., "Extensive Polymorphisms Observed in HIV-1 Clade B Protease Gene Using High-Density Oligonucleotide Arrays," <u>Nature Medicine</u> 2:753-759 (1996)					
✓	216	Telenti et al., "Competitive Polymerase Chain Reaction Using an Internal Standard: Application to the Quantitation of Viral DNA," <u>Journal of Virological Methods</u> 39:259-268 (1992)					
✓	217	Nikiforov et al., "Genetic Bit Analysis: A Solid Phase Method for Typing Single Nucleotide Polymorphisms," <u>Nucleic Acids Res.</u> 22(20):4167-4175 (1994)					
✓	218	Janssen et al., "Evaluation of the DNA Fingerprinting Method AFLP as a New Tool in Bacterial Taxonomy," <u>Microbiology</u> 142:1881-1893 (1996)					
✓	219	Belgrader et al., "A Multiplex PCR-Ligase Detection Reaction Assay for Human Identity Testing," <u>Genome Science & Tech.</u> 1:77-87 (1996)					
✓	220	Day et al., "Identification of Non-Amplifying CYP21 Genes When Using PCR-Based Diagnosis of 21-Hydroxylase Deficiency in Congenital Adrenal Hyperplasia (CAH) Affected Pedigrees," <u>Hum. Mol. Genet.</u> 5(12):2039-2048 (1996)					

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
FILING DATE	GROUP ART UNIT	
March 17, 2000	1655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M	✓	221	Heller et al., "Discovery and Analysis of Inflammatory Disease-Related Genes Using cDNA Microarrays," <u>Proc. Nat'l. Acad. Sci. USA</u> 94:2150-2155 (1997)
✓	✓	222	Gerry et al., "Universal DNA Microarray Method for Multiplex Detection of Low Abundance Point Mutations," <u>J. Mol. Biol.</u> 292:251-262 (1999)
✓	✓	223	Lysov et al., "DNA Sequencing by Hybridization to Oligonucleotide Matrix. Calculation of Continuous Stacking Hybridization Efficiency," <u>Journal of Biomolecular Structure & Dynamics</u> 11(4):797-812 (1994)
✓	✓	224	Milner et al., "Selecting Effective Antisense Reagents on Combinatorial Oligonucleotide Arrays," <u>Nature Biotechnology</u> 15:537-541 (1997)
✓	✓	225	Takahashi et al., "Thermophilic HB8 DNA Ligase: Effects of Polyethylene Glycols and Polyamines on Blunt-End Ligation of DNA," <u>J. Biochem.</u> 100:123-131 (1986)
✓	✓	226	Takahashi et al., "Purification of HB8 DNA Ligase by Red Sepharose Chromatography," <u>Agric. Biol. Chem.</u> 50(5):1333-1334 (1986)
✓	✓	227	Lawyer et al., "Isolation, Characterization, and Expression in <i>Escherichia coli</i> of the DNA Polymerase Gene from <i>Thermus Aquaticus</i> ," <u>J. Bio. Chem.</u> 264(11):6427-6437 (1989)
✓	✓	228	Taguchi et al., "A Chaperonin from a Thermophilic Bacterium, <i>Thermus Thermophilus</i> , That Controls Refoldings of Several Thermophilic Enzymes," <u>J. Biol. Chem.</u> 266(33):22411-22418 (1991)
M	✓	229	Schalling et al., "Direct Detection of Novel Expanded Trinucleotide Repeats in the Human Genome," <u>Nature Genetics</u> , 4:135-139 (1993)

EXAMINER

DATE CONSIDERED

March 17

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 19603/481 (CRF D-2472A)	SERIAL NO. 09/528,014
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Barany et al.	
(use several sheets if necessary) (PTO-1449)		FILING DATE March 17, 2000	GROUP ART UNIT 1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M	/	230	Caskey, "Molecular Medicine - A Spin-off From the Helix," <u>JAMA</u> 269:1986-1993 (1993)				
✓	✓	231	Perucho et al., "Genetic and Physical Linkage of Exogenous Sequences in Transformed Cells," <u>Cell</u> 22(Part I):309-317 (1980)				
✓	✓	232	Weiss, "Hot Prospect for New Gene Amplifier," <u>Science</u> , 254:1292-1293 (1991)				
✓	✓	233	Birkenmeyer et al., "Mini-Review -- DNA Probe Amplification Methods," <u>J. Virol Methods</u> 35:117-126 (1991)				
✓	✓	234	Holding et al., "Diagnosis of Beta-Thalassaemia by DNA Amplification in Single Blastomeres from Mouse Preimplantation Embryos," <u>The Lancet</u> pp. 532-535 (1989)				
✓	✓	235	Barringer et al., "Blunt-End and Single-Strand Ligations by <i>Escherichia coli</i> Ligase: Influence on an in vitro Amplification Scheme," <u>Gene</u> 89:117-122 (1990)				
✓	✓	236	Matsuzawa et al., "Purification and Characterization of Aqualysin I (a Thermophilic Alkaline Serine Protease) Produced by <i>Thermus Aquaticus</i> YT-1," <u>Eur. J. Biochem.</u> 171:441-447 (1988)				
✓	✓	237	Zimmerman et al., "Macromolecular Crowding Allows Blunt-end Ligation by DNA Ligase from Rat Liver or <i>Escherichia coli</i> ," 80:5852-5856 (1983)				
✓	✓	238	Barany, "A Genetic System for Isolation and Characterization of <i>TaqI</i> Restriction Endonuclease Mutants," <u>Gene</u> 56:13-27 (1987)				

EXAMINER	DATE CONSIDERED
<i>B</i>	<i>Mar 2002</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	PILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

M	✓	239	Cotton, "Detection of Single Base Changes in Nucleic Acids," <u>Biochem J.</u> 263:1-10 (1989)
M	✓	240	Konrad et al., "Genetic and Enzymic Characterization of a Conditional Lethal Mutant of <i>Escherichia coli</i> K12 with a Temperature-Sensitive DNA Ligase," <u>Chem Abstracts</u> 79(13):75781v, pp. 243-244 (1973)
M	✓	241	Hanahan, "Studies on Transformation of <i>Escherichia coli</i> with Plasmids," <u>J. Molec. Biol.</u> 166:557-580 (1983)
M	✓	242	Wu et al., "Specificity of the Nick-Closing Activity of Bacteriophage T4 DNA Ligase," <u>Gene</u> 76:245-54 (1989)
M	✓	243	Xu et al., "Microsequence Analysis of Peptides and Proteins. VIII. Improved Electroblotting of Proteins onto Membranes and Derivatized Glass-Fiber Sheets," <u>Analytical Biochem.</u> 170:19-30 (1988)
M	✓	244	Moos et al., "Reproducible High Yield Sequencing of Proteins Electrophoretically Separated and Transferred to an Inert Support," <u>J. Biol. Chem.</u> 263(13):6005-6008 (1988)
M	✓	245	Matsuda et al., "The Primary Structure of L-1 Light Chain of Chicken Fast Skeletal Muscle Myosin and Its Genetic Implication," <u>FEBS Letters</u> 126(1):111-113 (1981)
M	✓	246	Lathe, "Synthetic Oligonucleotide Probes Deduced from Amino Acid Sequence Data Theoretical and Practical Considerations," <u>J. Molec. Biol.</u> 183:1-12 (1985)
M	✓	247	Zebala et al., "Characterization of Steady State, Single-Turnover, and Binding Kinetics of the <i>TagI</i> Restriction Endonuclease," <u>The Journal of Biology and Chemistry</u> 267(12):8097-8105 (1992)

EXAMINER

DATE CONSIDERED

March 17

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>h</i>	<i>✓</i>	248	Davis et al., "Protein Splicing in the Maturation of <i>M. tuberculosis</i> RecA Protein: A Mechanism for Tolerating a Novel Class of Intervening Sequence," <u>Cell</u> 71(1):201-210 (1992)
	<i>✓</i>	249	Perler et al., "Intervening Sequences in an Archaea DNA Polymerase Gene," <u>Proc. Natl. Acad. Sci. USA</u> 89:5577-5581 (1992)
	<i>✓</i>	250	Shively, "Reverse-Phase HPLC Isolation and Microsequencing," in <u>Methods of Protein Characterization. A Practical Handbook</u> , Clifton, New Jersey: Humana Press, pp. 46-49 (1986)
	<i>✓</i>	251	Niece et al., "A Synthetic Peptide for Evaluating Protein Sequencer and Amino Analyzer Performance in Core Facilities: Design and Results," in Hugli, ed., <u>Techniques in Protein Chemistry</u> , Academic Press, Inc., pp. 89-101 (date unknown)
	<i>✓</i>	252	Walsh et al., "Advances in Protein Sequencing," <u>Annual Review of Biochemistry</u> 50:261-284 (1981)
	<i>✓</i>	253	Roitsch et al., "High-Performance Liquid Chromatography of Biologically Active Proteins in the Nanogram (Picomole) Range," in Lefkovits, eds., <u>Immunological Methods</u> , Vol. III, Academic Press, Inc., pp. 85-86, 106-107, 274-284 (1985)
	<i>✓</i>	254	Wang et al., Molecular Genetic and Genetic Correlations in Sodium Channelopathies: Lack of Founder and Evidence for a Second Gene," <u>Am. J. Hum. Genet.</u> 52:1074-1084 (1993)
	<i>✓</i>	255	Feero et al., "Hyperkalemic Periodic Paralysis: Rapid Molecular Diagnosis and Relationship of Genotype to Phenotype in 12 Families," <u>Neurology</u> 43(4):668-673 (1993)
<i>m</i>	<i>✓</i>	256	Wiedmann et al., "Detection of <i>Listeria monocytogenes</i> with a Nonisotopic Polymerase Chain Reaction-Coupled Ligase Chain Reaction Assay," <u>Applied Environmental Microbiology</u> 59(8):2743-2745 (1993)

EXAMINER	DATE CONSIDERED
<i>m</i>	<i>March 01</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NO. 19603/481 (CRF D-2472A)	SERIAL NO. 09/528,014
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Barany et al.	
(use several sheets if necessary)		FILING DATE March 17, 2000	GROUP ART UNIT 1655
(PTO-1449)			

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
✓	257	6,143,495	11/07/2000	Lizardi et al.			
✓	258	5,516,635	05/14/1996	Ekins et al.			
✓	259	5,695,934	12/09/1997	Brenner			
✓	260	5,290,925	03/01/1994	Fino			
✓	261	5,278,298	01/11/1994	Chakraborty et al.			
✓	262	5,830,711	11/03/1998	Barany et al.			
✓	263	5,258,506	11/02/1993	Urdea et al.			
✓	264	5,859,221	01/12/1999	Cook et al.			
✓	265	5,304,487	04/19/1994	Wilding et al.			
✓	266	5,516,663	05/14/1996	Backman et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE
✓	267	WO 90/11372	10/04/1990	WIPO			
✓	268	WO 92/10566	06/25/1992	WIPO			
✓	269	WO 97/31256	08/28/1997	WIPO			
✓	270	EP 0 185 494 A3	06/25/1986	Europe			
✓	271	EP 0 236 069 A2	09/09/1987	Europe			
✓	272	EP 0 439 182 A2	07/31/1991	Europe			
✓	273	EP 0 473 155 A2	03/04/1992	Europe			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

✓	✓	274	Wiedmann et al., "Discrimination of <i>Listeria monocytogenes</i> from Other <i>Listeria</i> Species by Ligase Chain Reaction," <u>Applied and Environmental Microbiology</u> 58(11):3443-3447 (1992)
✓	✓	275	Zebala et al., "Implications for the Ligase Chain Reaction in Gastroenterology," <u>Clin. Gastroenterol.</u> 17(2):171-175 (1993)
✓	✓	276	Prchal et al., "Transcriptional Analysis of the Active X-Chromosome in Normal and Clonal Hematopoiesis," <u>Blood</u> 81:269-271 (1993)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATT. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
FILING DATE	GROUP ART UNIT	
March 17, 2000	1655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>h</i>	277	5,496,699	03/05/1996	Sorenson			
<i>h</i>	278	5,506,137	04/09/1996	Mathur et al.			
<i>h</i>	279	6,033,880	03/07/2000	Haff et al.			
<i>h</i>	280	6,025,139	02/15/2000	Yager et al.			
<i>h</i>	281	6,020,124	02/01/2000	Sorenson			
<i>h</i>	282	6,013,445	01/11/2000	Albrecht et al.			
<i>h</i>	283	5,888,731	03/30/1999	Yager et al.			
<i>h</i>	284	5,869,252	02/09/1999	Bouma et al.			
<i>h</i>	285	5,288,468	02/22/1994	Church et al.			
<i>h</i>	286	6,013,513	01/11/2000	Reber et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>h</i>	287	Ruiz-Opazo et al., "Confirmation of Mutant α_1 Na,K-ATPase Gene and Transcript in Dahl Salt-Sensitive/JR Rats," <u>Hypertension</u> 24(3):260-270 (1994)
<i>h</i>	288	Landegren, "Molecular Mechanics of Nucleic Acid Sequence Amplification," <u>Trends in Genetics</u> 9:199-204 (1993)
<i>h</i>	289	Pfeffer et al., "A Ligase Chain Reaction Targeting Two Adjacent Nucleotides Allows the Differentiation of Cowpox Virus from Other Orthopoxvirus Species," <u>Journal of Virological Methods</u> 49:353-360 (1994)
<i>h</i>	290	Kälin et al., "Evaluation of the Ligase Chain Reaction (LCR) for the Detection of Point Mutations," <u>Mutation Research</u> 283: 119-123 (1992)
<i>h</i>	291	Day et al., "Nucleotide Analogs Facilitate Base Conversion with 3' Mismatch Primers," <u>Nucleic Acids Research</u> 27(8):1810-1818 (1999)

EXAMINER

m

DATE CONSIDERED

March 17

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATT. DOCKET NO.	SERIAL NO.
	19603/481 (CRF D-2472A)	09/528,014
	APPLICANT	
	Barany et al.	
	FILING DATE	GROUP ART UNIT
	March 17, 2000	1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

✓	292	Marsh et al., "Pyrococcus furiosus DNA Ligase and the Ligase Chain Reaction," <u>Strategies in Molecular Biology</u> 5:73-76
		(Date Unknown)
✓	293	Nakazawa et al., "UV and Skin Cancer: Specific p53 Gene Mutation in Normal Skin as a Biologically Relevant Exposure Measurement," <u>Proc. Natl. Acad. Sci USA</u> 91:360-364 (1994)
✓	294	Rogers, "Nucleic Acid Amplification and Infectious Disease," <u>Human Pathology</u> 26(6):591-593 (1994)
✓	295	Wilson et al., "Identification of <i>Erwinia stewartii</i> by a Ligase Chain Reaction Assay," <u>Applied and Environmental Microbiology</u> 60(1):278-284 (1994)
✓	296	Bloch, "A Biochemical Perspective of the Polymerase Chain Reaction," <u>Biochemistry</u> 30(11):2735-2747 (1991)
✓	297	Jonsson et al., "Nucleotide Sequence of the DNA Ligase Gene from <i>Thermus scotoductus</i> and Conserved Motifs in DNA Ligases" (1994)
✓	298	Tong et al., "Biochemical Properties of a High Fidelity DNA Ligase from <i>Thermus</i> Species AK16D," <u>Nucleic Acids Research</u> 27(3):788-794 (1999)
✓	299	Wallace et al., "Ligase Chain Reaction for the Detection of Specific DNA Sequences and Point Mutations," in <u>Technologies for Detection of DNA Damage and Mutations</u> , Pfeifer, G.P., ed., New York: Plenum Press, Chapter 23, pp. 307-322 (1996)
✓	300	Reyes et al., "Ligase Chain Reaction Assay for Human Mutations: The Sickle Cell by LCR Assay," <u>Clinical Chemistry</u> 43(1):40-44 (1997)

EXAMINER

M

DATE CONSIDERED

March '02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY/ROCKET NO. 19603/481 (CRF D-2472A)	SERIAL NO. 09/528,014
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Barany et al.	
(use several sheets if necessary)		FILING DATE March 17, 2000	GROUP ART UNIT 1655
(PTO-1449)			

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>W</i>	301	6,027,889	02/22/2000	Barany et al.			
<i>W</i>	302	6,268,148 B1	07/31/2001	Barany et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE
<i>M</i>	303	EP 0 373 962 A2	06/20/1990	Europe			
<i>M</i>	304	2,049,879		Canada			
<i>M</i>	305	730,633		Australia			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>M</i>	306	Dille et al., "Amplification of <i>Chlamydia trachomatis</i> DNA by Ligase Chain Reaction," <u>Journal of Clinical Microbiology</u> 31(3): 729-731 (1993)
	307	Birkenmeyer et al., "Preliminary Evaluation of the Ligase Chain Reaction for Specific Detection of <i>Neisseria gonorrhoeae</i> ," <u>Journal of Clinical Microbiology</u> 30(12):3089-3094 (1992)
	308	Bsat et al., "Food Safety Applications of Nucleic Acid-Based Assays," <u>Food Technology</u> pp. 142-145 (1994)
	309	Winn-Deen et al., "Non-Radioactive Detection of <i>Mycobacterium tuberculosis</i> LCR Products in a Microtitre Plate Format," <u>Molecular and Cellular Probes</u> 7:179-186 (1993)
	310	Weisberg et al., "Lyophilization as a Method to Store Samples of Whole Blood," <u>BioTechniques</u> 15(1):64-68 (1993)
	311	Birkenmeyer et al., "DNA Probe Amplification Methods," <u>Journal of Virological Methods</u> 35:117-126 (1991)
<i>M</i>	312	Batt et al., "Detection of Bovine Leukocyte Adhesion Deficiency by Nonisotopic Ligase Chain Reaction," <u>Animal Genetics</u> 25:95-98 (1994)

EXAMINER

DATE CONSIDERED

March 02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY/CKET NO. 19603/481 (CRF D-2472A)	SERIAL NO. 09/528,014
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Barany et al.	
(use several sheets if necessary) (PTO-1449)		FILING DATE March 17, 2000	GROUP ART UNIT 1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>M</i>		313	Rolfs et al., "Alternative Methods to PCR," in <u>PCR: Clinical Diagnostics and Research</u> , Berlin: Springer-Verlag, Chapter 23, pp. 263-265 (1992)				
		314	Hames et al., eds., <u>Nucleic Acid Hybridisation. A Practical Approach</u> , Oxford, England: IRL Press, pp. 5-7 (1985)				
		315	"Nucleic Acid Hybridization – General Aspects," in <u>Nonradioactive In Situ Hybridization Application Manual</u> , Indianapolis, Indiana: Boehringer Mannheim Corporation, Chapter III (1992)				
		316	Howard et al., "Cloning the DdeI Restriction-Modification System Using a Two-Step Method," <u>Nucleic Acids Research</u> 14(20): 7939-7951 (1986)				

EXAMINER	DATE CONSIDERED
<i>M</i>	<i>March 02</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	